

What is claimed is:

1. A communication system comprising:
a first communication unit sending
transmission data, a control sequence, and an
extended control sequence, wherein said control
5 sequence is originally defined by a protocol, and
said extended control sequence is undefined by
said protocol and is provided for requesting an
extended operation, and said control sequence
includes an abort sequence requesting for
10 abortion of said transmission data,
a second communication unit receiving said
transmission data, said control sequence, and
said extended control sequence, and executing
said extended operation in response to said
15 extended control sequence, wherein said extended
control sequence includes said abort sequence.
2. The communication system according to claim
1, wherein said protocol is PPP (Point-to-Point
Protocol), and said abort sequence is represented
by "7D, 7E" in the hexadecimal notation.
3. The communication system according to claim
1, wherein said extended control sequence
consists of a plurality of said abort sequence.

4. The communication system according to claim
1, wherein said first communicating unit divides
said transmission data into a plurality of
divided data, and sequentially transmits said
5 plurality of divided data to said second
communication unit, and

wherein said second communicating system
reproduces said transmission data from said
plurality of divided data in response to said
10 extended control sequence.

5. The communication system according to claim
1, wherein said first communication unit
includes:

a transmission high order layer generating
5 said transmission data;

a transmission FIFO transiently storing
said transmission data, and sequentially
outputting said transmission data; and

a transmission data processor reading said
10 transmission data out of said transmission FIFO
to transmit said transmission data to said second
communication unit, and

said transmission data processor divides
said transmission data into a plurality of
15 divided data when an underflow occurs in said
transmission FIFO, and sequentially transmits

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said plurality of divided data to said second communication unit, and

said second communication unit reproduces
20 said transmission data from the plurality of divided data in response to said extended control sequence.

6. The communication system according to claim 1, wherein said first communication unit includes:

a CRC indicating unit outputting a CRC
5 indication sequence as said extended control sequence for indicating a CRC (Cyclic Redundancy Check) method; and

a CRC calculator calculating a CRC code according to said CRC method and outputting said
10 CRC code to said second communication unit, and

said second communication unit executes a CRC on said transmission data in response to said CRC indication sequence based on said CRC code according to said CRC method.

7. The communication system according to claim 1, wherein said first communication unit includes:

an operation test indicating unit
5 outputting an operation test indicating sequence

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said second communication unit executes an operation test based on said test data in

8. The communication system according to claim 1, wherein said second communication unit sends a predetermined signal to said first communication unit in response to said extended control

9. A communication system comprising:

a second communication unit receiving said first transmission data, and transmitting second transmission data, a control sequence, and an extended control sequence to said first communication unit, wherein said control sequence is originally defined by a protocol, and said

said extended control sequence includes

said first communication unit adjusts a rate of transmitting said first transmission data in response to said extended control sequence.

11. The communication system according to claim 9, wherein said second communication unit includes:

said extended control sequence is generated in accordance with a state of said reception FIFO.

said second communicating system reproduces
said first transmission data from said plurality
of divided data in response to said another

10 extended control sequence.

13. A transmitter comprising:

a data receiver receiving transmission data; and

a sending unit sending said transmission
5 data, a control sequence and an extended control sequence, wherein said control sequence is originally defined by a protocol, and said extended control sequence is undefined by said protocol and is provided for requesting an
10 extended operation, and

said control sequence includes an abort sequence requesting for abortion of said transmission data.

14. The transmitter according to claim 13, wherein said protocol is PPP (Point-to-Point Protocol), and said abort sequence is represented by "7D, 7E" in the hexadecimal notation.

15. The transmitter according to claim 13, wherein said extended control sequence consists of a plurality of said abort sequence.

16. A receiver comprising:

a receiving unit receiving transmission

data, a control sequence, and an extended control
sequence, wherein said control sequence is
5 originally defined by a protocol, and said
extended control sequence is undefined by said
protocol and is provided for requesting an
extended operation, and said control sequence
includes an abort sequence requesting for
10 abortion of said transmission data; and
an outputting unit outputting said
transmission data,

wherein said receiving unit executes said
extended operation in response to said extended
15 control sequence, and
said extended control sequence includes
said abort sequence.

17. The receiver according to claim 16, wherein
said protocol is PPP (Point-to-Point Protocol),
and said abort sequence is represented by "7D,
7E" in the hexadecimal notation.

18. The receiver according to claim 16, wherein
said extended control sequence consists of a
plurality of said abort sequence.

19. A communication method comprising:
sending transmission data;

defined by a protocol wherein said control

5 sequence includes an abort sequence requesting
for abortion of said transmission data;

sending an extended control sequence,
 wherein said extended control sequence is
 undefined by said protocol and is provided for
 requesting an extended operation;

receiving said transmission data, said control sequence, and said extended control sequence; and

executing said extended operation in
15 response to said extended control sequence,
wherein said extended control sequence includes
said abort sequence.

20. The communication method according to claim 19, wherein said protocol is PPP (Point-to-Point Protocol), and said abort sequence is represented by "7D, 7E" in the hexadecimal notation.

21. The communication method according to claim 19, wherein said extended control sequence consists of a plurality of said abort sequence.